

$$E \quad y''' - ry' + ry = e^{-rx} + rsinhx = e^{rx} + e^{-e}$$

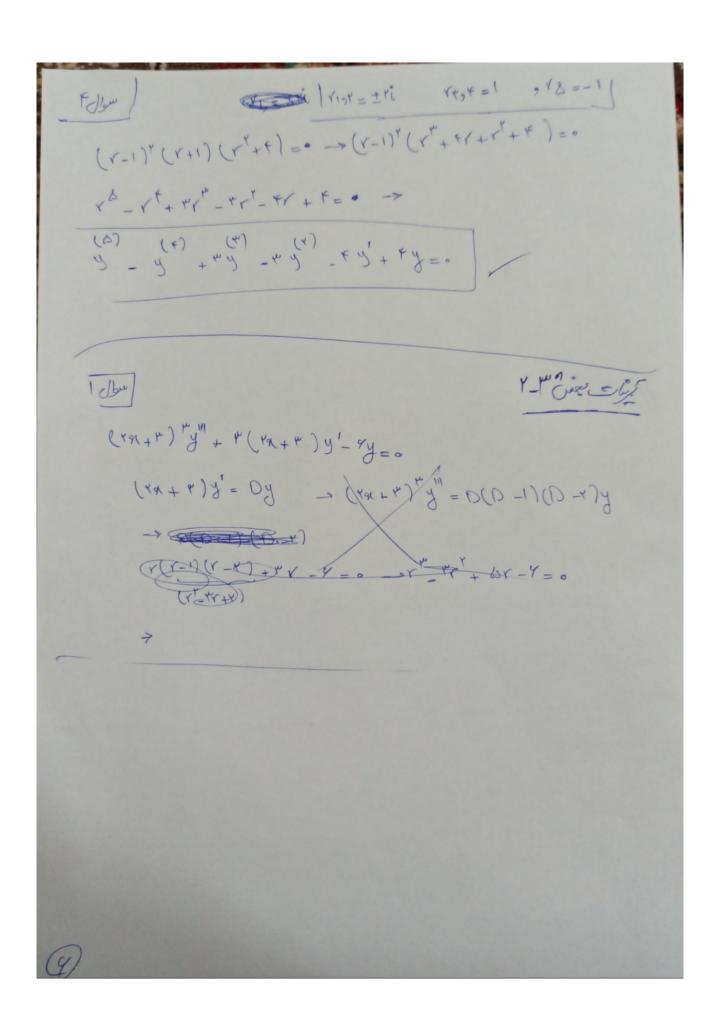
$$\Rightarrow y_h = r^{\mu} + rr + r = 0 \Rightarrow (r+r)(r-1)^{\mu} = 0 \Rightarrow rr = rr$$

$$y_h = ce^{\frac{rx}{x}} + cre^{\frac{rx}{x}} + xcre^{\frac{rx}{x}}$$

$$y_p = x + re^{\frac{rx}{x}} + xcre^{\frac{rx}{x}} + xre^{\frac{rx}{x}} + 4re^{\frac{rx}{x}}$$

$$y_p' = A_1e^{\frac{rx}{x}} - rx_1A_1e^{\frac{rx}{x}} + rx_1A$$

$$\frac{1}{2} \frac{1}{2} \frac{1$$



mes and y=x → y=ovx -/ y'= vx+v y"=vx+vv 2 Sim (Va + " V") - ("2 Sinx + x G > x) (Vx + Y V') + (4) Sinx + x x G 5 x) (T91+V) - (4511191 + Macsx) xV=0 Fdgu y - y" = Mg Y - Sinta $\text{Show} \qquad \text{re-rt-o-rt}(\text{rt-l}) = 0 \rightarrow \begin{cases} \text{rist=0} \\ \text{rts} \neq \pm 1 \end{cases}$ Th= CI + XCY + Exe + CFE JP=x/A.x+A1x+Ap)+ Arsintx yp = A. x + AIN+ Ara+ Aresina = yp = FA. n+ MAIN+ YAF GOTA P = A. x + A | x + MA + MA + MA - F AK SINGN - AP = -P -> YP = 17A. x + YA| - NAF GSTX -> Y = YEA. + 18A FEINTON

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